All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in any retrieval system of any nature without the permission of cracku.in, application for which shall be made to support@cracku.in

Downloaded from cracku.in

SSC CHSL 1 Feb 2017 Afternoon Shift

Reasoning

1. **Select the related word/letters/number from the given alternatives.**
   Nephrology : Kidney : : Ichthyology : ?

A Fish

B Soil

C Algae

D Insects

Answer: A

Explanation:
Nephrology is the branch of medicine that deals with the physiology and diseases of the kidneys, similarly Ichthyology is the branch of zoology that deals with *fishes*.

=> Ans - (A)

2. **Select the related word/letters/number from the given alternatives.**
   AGREE : FGPIB : : RULES : ?

A TJGSU

B TGJWS

C TGJSU

D THJUS

Answer: B

Explanation:
Expression = AGREE : FGPIB : : RULES : ?

The pattern followed when we *reverse* the code is :

E	E	R	G	A
(+1)	(+2)	(-2)	(+2)	(+1)
F	G	P	I	B

Similarly, reverse of RULES :

S	E	L	U	R
(+1)	(+2)	(-2)	(+2)	(+1)
T	G	J	W	S

=> Ans - (B)

3. **Select the related word/letters/number from the given alternatives.**
   MUMBAI: UMBMIA :: GURUGRAM : ?

A RUGUMARG

B UGURRGMA

C UGURGRMA

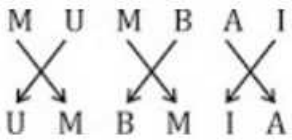
D UGRURGAM

Downloaded from cracku.in

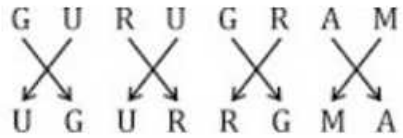
Answer: B

Explanation:
Expression = MUMBAI: UMBMIA :: GURUGRAM : ?

The pattern followed is :



Similarly, for GURUGRAM :



=> Ans - (B)

4. **Select the related word/letters/number from the given alternatives.**
   30 : 16 :: 24 : ?

A 14

B 13

C 20

D 25

Answer: B

Explanation:
Expression = 30 : 16 :: 24 : ?

The pattern followed is = $x : \frac{x}{2} + 1$

Eg :- $30 : \frac{30}{2} + 1 = 30 : 16$

Similarly, $\frac{24}{2} + 1 = 12 + 1 = 13$

=> Ans - (B)

SSC CHSL Free Mock Test

5. **Select the odd word/letters/number/number pair from the given alternatives.**

A Dog

B Cat

C Goat

D Lion

Answer: D

Explanation:
Except Lion others are domestic animal, hence lion is the odd one out.

=> Ans - (D)

6. **Select the odd word/letters/number/number pair from the given alternatives.**

Downloaded from cracku.in

A E5T

B O9S

C U3A

D I7M

Answer: C

Explanation:
Except U3A, all have one vowel and one consonant, hence U3A is the odd one out.

=> Ans - (C)

7. **Select the odd word/letters/number/number pair from the given alternatives.**

A 862

B 835

C 439

D 147

Answer: D

Explanation:
Apart from 147, sum of digits of other numbers is 16, hence 147 is the odd one out.

=> Ans - (D)

SSC CHSL Prevoius Papers (DOWNLOAD PDF)

8. **Select the odd word/letters/number/number pair from the given alternatives.**

A 45

B 56

C 55

D 78

Answer: C

Explanation:
Apart from 55, difference between digits of other numbers is 1, hence 55 is the odd one out.

=> Ans - (C)

9. **A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. MHZ, NIW, OKT, PNQ, ?**

A QNR

B QRN

C RNM

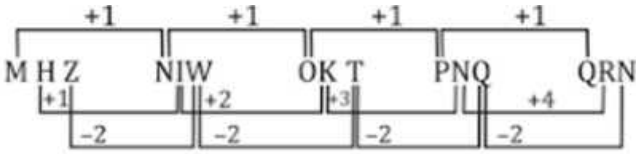
D QNO

Answer: B

Downloaded from cracku.in

Explanation:
Expression : MHZ, NIW, OKT, PNQ, ?

The pattern followed is :



Thus, missing term = **QRN**

=> Ans - (B)

10. **A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. CFE, ILK, ORQ, ?**

A UXW

B VYW

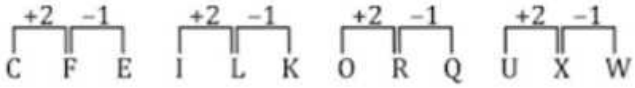
C UYW

D UXX

Answer: A

Explanation:
Expression : CFE, ILK, ORQ, ?

The pattern followed is :



Thus, missing term = **UXW**
=> Ans - (A)

SSC CGL Previous Papers (DOWNLOAD PDF)

11. **A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 14, 22, 33, 47, 64, ?**

A 81

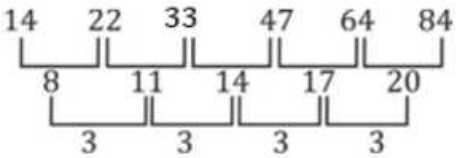
B 84

C 92

D 94

Answer: B

Explanation:
The pattern followed is :



Thus, missing number = **84**

=> Ans - (B)

Downloaded from cracku.in

12. **In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.**
Statement:
(I) Retail shops increasingly want to retain potential buyers.
(II) 10 % of the customers are lost due to out of stock products.
Conclusions:
(I) People don't find their sizes or specific color in stock and then they leave the store without any purchase.
(II) Retailers want maximum footfall to get converted into purchases.

A Only conclusion II follows

B Conclusion I and II both follow

C Neither I nor II follow

D Only conclusion I follows

Answer: B

Explanation:
The given statements indicate that retail shops increasingly want to retain potential buyers, and they also lose their customers due to lack of products availability. The first conclusion is apt as it suggests why people leave the stores empty handed and vice-versa second conclusion is also true.

Thus, conclusion I and II both follow.

=> Ans - (B)

13. **A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.**
Morning, Afternoon, Evening, ?

A Day

B Week

C Year

D Night

Answer: D

Explanation:
Time of day in chronological order.

= Morning -> Afternoon -> Evening -> Night

=> Ans - (D)

SSC CGL Free Mock Test (Latest Pattern)

14. **A, B, C and X, Y, Z were sitting facing each other. A, B and C were facing south and X, Y and Z were facing north. X was left of Y but in front of A; Z was not at the left end and was not facing C. Who were at the left and right positions respectively?**

A B and Y

B C and X

C B and Z

D X and A

Answer: D

Downloaded from cracku.in

Explanation:
A, B and C were facing south and X, Y and Z were facing north.

X was left of Y but in front of A. Z was not at the left end and was not facing C.

=> Z is sitting at right end and C is sitting in the middle. A is facing X.

Thus, arrangement :

A	C	B	↓
X	Y	Z	↑

∴ **X and A** were at the left and right positions respectively.

=> Ans - (D)

15. **Arrange the given words in the sequence in which they occur in the dictionary.**
    i. Drama
    ii. Dramatical
    iii. Dramaticism
    iv. Dramality
    v. Dramatise

A i, iv, ii, iii, v

B i, iv, ii, v, iii

C i, iv, v, iii, ii

D iv, i, v, iii, ii

Answer: A

Explanation:
As per the order of dictionary :

= Drama -> Dramality -> Dramatical -> Dramaticism -> Dramatise

≡ i, iv, ii, iii, v

=> Ans - (A)

16. **In a certain code language "GASTRIC" is written as "UCIREKT". How will "DECEIVE" be written in that code language?**

A ACBCCTG

B ACACCTG

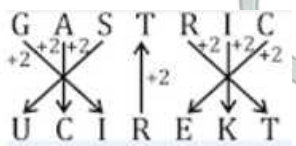
C EGFCGXK

D BFCCTGL

Answer: C

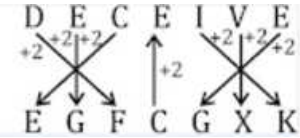
Explanation:
"GASTRIC" is written as "UCIREKT"

The pattern followed is :



Similarly, for DECEIVE :

Downloaded from cracku.in



=> Ans - (C)

SSC CHSL Important Questions and Answers (Download PDF)

17. **In the following question, select the missing number from the given series**

9	8	5
6	6	7
3	?	3
5	7	4

A 9

B 4

C 8

D 2

Answer: D

Explanation:

The pattern followed for a, b, c and d in each column is : $a = (c \times d) - b$

Eg :- $(3 \times 5) - 6 = 15 - 6 = 9$

$(3 \times 4) - 7 = 12 - 7 = 5$

Similarly, $(x \times 7) - 6 = 8$

=> $7x = 8 + 6 = 14$

=> $x = \frac{14}{7} = 2$

=> Ans - (D)

18. **Which of the following interchanges in signs and numbers will make the given equation correct?**
8 x 6 + 4 = 52

A x and +, 8 and 52

B + and x, 6 and 4

C x and +, 8 and 4

D + and x, 6 and 8

Answer: C

Explanation:

Expression : 8 x 6 + 4 = 52

(A) : x and +, 8 and 52

$\equiv 52 + 6 \times 4 = 8$

L.H.S. $= 52 + 24 = 76 \neq$ R.H.S.

(B) : + and x, 6 and 4

$\equiv 8 + 4 \times 6 = 52$

L.H.S. $= 8 + 24 = 32 \neq$ R.H.S.

Downloaded from cracku.in

(C) : x and +, 8 and 4

$\equiv 4 + 6 \times 8 = 52$

L.H.S. $= 4 + 48 = 52 =$ R.H.S.

=> Ans - (C)

19. **In the following question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?**
_cca_a_ca_ac_ab

A abcbc

B abcbb

C abbcc

D abccb

Answer: A

Explanation:
The pattern followed is that in groups of 5, the term 'accab' is repeated.

= **a**cca**b** a**cc**a**b** ac**c**ab

=> Ans - (A)

SSC CHSL Study Material

20. **From point A, Ram moves 100m in northeast direction, he again turns and moves 100m in southeast direction. He again turns and covers 100m southwest and finally covers 100m in northwest direction. In which direction is he now with respect to A?**

A West

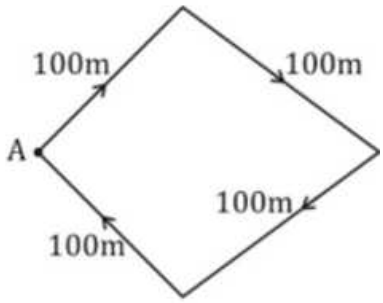
B Southwest

C At point A

D East

Answer: C

Explanation:



Ram starts from point A and moves 100 m in north-east direction, he again turns and moves 100 m in south-east direction. He again turns and covers 100 m towards south-west and finally covers 100 m in north-west direction.

Thus, he is finally at point A.

=> Ans - (C)

Downloaded from cracku.in

21. **A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'K' can be represented by 10, 34 etc. and 'I' can be rep-resented by 76, 88 etc. Similarly, you have to identify the set for the word 'LIGHT'.**

Matrix -I

	0	1	2	3	4
0	T	M	L	K	G
1	K	L	G	T	M
2	L	T	M	G	K
3	M	G	T	L	K
4	G	K	M	T	L

Matrix -II

	5	6	7	8	9
5	F	R	I	A	H
6	I	A	F	H	R
7	R	I	H	F	A
8	A	H	R	I	F
9	H	F	A	R	I

A 02, 65, 31, 58, 21

B 20, 77, 12, 68, 13

C 44, 87, 40, 95, 32

D 33, 99, 04, 59, 43

Answer: D

Explanation:
(A) : 02, 65, 31, 58, 21 = LIGAT

(B) : 20, 77, 12, 68, 13 = LHGHT

(C) : 44, 87, 40, 95, 32 = LRGHT

(D) : 33, 99, 04, 59, 43 = **LIGHT**

=> Ans - (D)

22. **Pointing a man, Suraj says, "He is the son of the sister of my father's wife". How is that man related to Suraj?**

A Father

B Brother

C Cousin

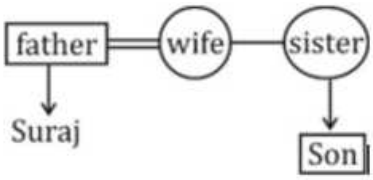
D Nephew

Answer: C

Explanation:
Sister of Suraj's father's wife = Suraj's aunt

Relation is :

Downloaded from cracku.in

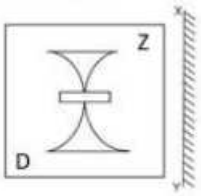


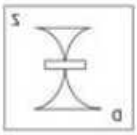
Thus, the man and Suraj are cousins.

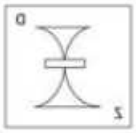
=> Ans - (C)

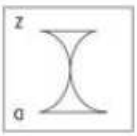
SSC CHSL Free App

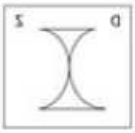
23. **If a mirror is placed on the line XY, then which of the answer figures is the right image of the given figure?**



A 

B 

C 

D 

Answer: A

Explanation:

A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

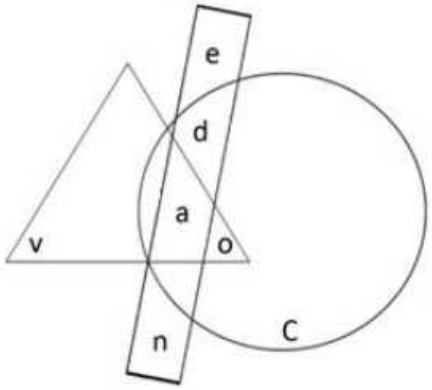
So the 'Z' at top right will be reversed and will now be at top left, thus the second and third options will be eliminated.

Also, 'D' will appear at bottom right, hence first option is the right image.

=> Ans - (A)

Downloaded from cracku.in

24. **Which of the following is a part of both circle and triangle ?**



A e

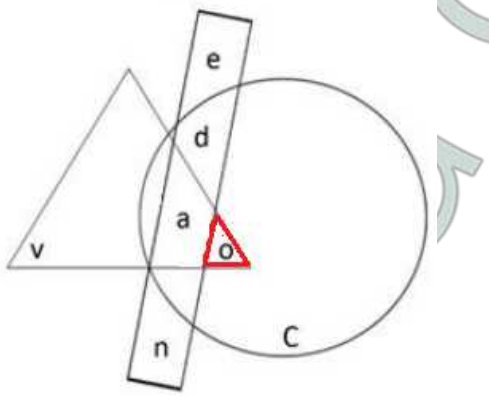
B v

C o

D c

Answer: C

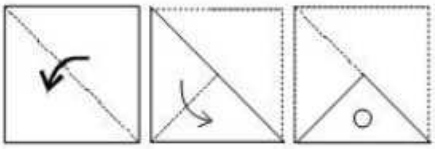
Explanation:



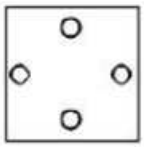
Part of both circle and triangle = **o**

=> Ans - (C)

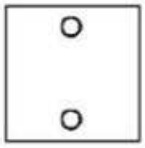
25. **A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.**



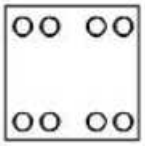
A

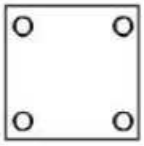


B



Downloaded from cracku.in

C 

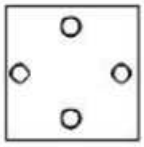
D 

Answer: A

Explanation:
When the paper is unfolded first to the left, a circle will appear similarly on the left part of the paper.

When the paper is unfolded again, one circle each will appear on the top part and right part of the paper.

∴ When the paper is unfolded it will appear as shown below



Hence, the correct answer is Option A

Daily Free SSC Practice Set

General Awareness

26. **Which of these is not a UNESCO World Heritage Site?**

A Ajanta Caves, Maharashtra

B Red Fort, New Delhi

C Victoria Memorial, Kolkata

D Kaziranga Wildlife Sanctuary, Assam

Answer: C

Free SSC Study Material (18,000 Solved Questions)

27. **Highest Civilian Honour received by Amitabh Bachchan is .**

A Padma Shri

B Padma Bhushan

C Padma Vibhushan

D Bharat Ratna

Answer: C

28. **Which organ does detoxification and produces chemicals needed for digestion?**

A Salivary glands

Downloaded from cracku.in

B Pancreas

C Thyroid gland

D Liver

Answer: D

29. **NaHCO3 is chemical formula for .**

A Borax

B Vinegar

C Lime

D Baking soda

Answer: D

1500+ Very Important Free SSC Solved Questions

30. **Which of the following elements has the lowest melting point?**

A Chromium

B Hydrogen

C Zinc

D Silver

Answer: B

31. **C Programming language was developed by .**

A Charles Babbage

B Larry Wall

C James Gosling

D Dennis Ritchie

Answer: D

32. **Which Indian Music Legend is the best known exponent of the instrument, Sitar?**

A Bhimsen Joshi

B Ravi Shankar

C Amjad Ali Khan

D Alla Rakha

Answer: B

SSC Exam Update Videos & Free Study Material (YouTube Channel)

Downloaded from cracku.in

33. **If demand curve for alphonso mangoes is D = 25000 70P and supply curve is S = 10000 + 80P, find the equilibrium quantity?**

A 18,000 units

B 2,000 units

C 1,800 units

D 200 units

Answer: A

34. **Match the characteristics with their market structure:**
(a) Price > MC in both short and long run
(b) Faces highly elastic demand

A (a) Monopolistic competition, (b) Pure competition

B (a) Pure Monopoly, (b) Monopolistic competition

C (a) Pure competition, (b) Monopolistic competition

D (a) Oligopoly, (b) Pure competition

Answer: B

35. **Anamalai Tiger Reserve is in which state?**

A Telangana

B Madhya Pradesh

C Tamil Nadu

D Kerala

Answer: C

Latest Job Updates on Telegram - Join here

36. **Which is the most economical method of removing solid matter from water?**

A Using deactivated carbon

B Electrolysis

C Distillation

D Sedimentation

Answer: D

37. **What is the Capital of Telangana State?**

A Hyderabad

B Secunderabad

C Vijayanagara

Downloaded from cracku.in

D Visakhapatnam

Answer: A

38. **Birbal was an advisor in the court of?**

A Babur

B Akbar

C Aurangzeb

D Jahangir

Answer: B

Join SSC Daily Quiz Telegram Group

39. **Humayun's Tomb is located in**

A Delhi

B Agra

C Gwalior

D Jaipur

Answer: A

40. **Assembly line was invented by**

A Alexander Parkes

B Luigi Palmieri

C Alexey Pajitnov

D Ransom Eli Olds

Answer: D

41. **Instrument for measuring blueness of the sky or ocean is called .**

A Bathymeter

B Ceraunograph

C Cyanometer

D Barometer

Answer: C

42. **Farad is unit of .**

A Capacitance

B Reactance

Downloaded from cracku.in

C Electric charge

D Electric conductance

Answer: A

43. **Under which Article is the Union Public Service Commission of India established?**

A Article 315

B Article 250

C Article 300

D Article 52

Answer: A

44. **The Westminster parliamentary system was developed in .**

A Spain

B Australia

C UK

D USA

Answer: C

SSC CHSL Free Mock Test

45. **Whose ear Mike Tyson bite in professional boxing match in 1997 for the WBA Heavyweight Championship?**

A James Douglas

B Evander Holyfield

C Riddick Bowe

D Michael Moorer

Answer: B

46. **Who is the author of "India 2020: A Vision for the New Millennium"? "**

A APJ Abdul Kalam

B Shashi Tharoor

C Narendra Modi

D Arun Shourie

Answer: A

47. **Psidium guajava is the scientific name of**

A Guava

Downloaded from cracku.in

B Mango

C Bamboo

D Jack fruit

Answer: A

SSC CHSL Prevoius Papers (DOWNLOAD PDF)

48. **In which year, RBI was nationalized?**

A 1939

B 1949

C 1959

D 1969

Answer: B

49. **Ottawa is the Capital City of .**

A France

B Norway

C Canada

D Greece

Answer: C

50. **Which drug is used as a Blood Thinner?**

A Warfarin

B Tramadol

C Azithromycin

D Hydralazine

Answer: A

SSC CGL Previous Papers (DOWNLOAD PDF)

Mathematics

51. **The value of x for which the expressions 15 - 7x and 15x + 7 become equal is .**

A -4/11

B -11/4

C 11/4

Downloaded from cracku.in

D 4/11

Answer: D

Explanation:
Expressions : 15 - 7x and 15x + 7

=> $15 - 7x = 15x + 7$

=> $15x + 7x = 15 - 7$

=> $22x = 8$

=> $x = \frac{8}{22} = \frac{4}{11}$

=> Ans - (D)

SSC CGL Free Mock Test (Latest Pattern)

52. **The largest 5 digit number exactly divisible by 95 is**

A 99936

B 99935

C 99940

D 99933

Answer: C

Explanation:
Largest 5 digit number = 99999

If 99999 is divided by 95, => 99999 = 95 $\times$ 1052 + 59

Quotient is 1052 and remainder is 59

Thus, largest 5 digit number which is divisible by 95 = 99999 - 59

= 99940

=> Ans - (C)

53. **If a:b = 3:8, find the value of (5a - 3b)/(2a + b).**

A 9/14

B 14/9

C -9/14

D -14/9

Answer: C

Explanation:
It is given that $a : b$ = 3 : 8

Let $a = 3$ and $b = 8$

To find : $\frac{5a-3b}{2a+b}$

= $\frac{(5\times3)-(3\times8)}{(2\times3)+(8)}$

= $\frac{(15-24)}{(6+8)} = \frac{-9}{14}$

Downloaded from cracku.in

=> Ans - (C)

54. **If 5 - 3x < 4 - x and 5(2 - x) > 2 - 2x, then x can take which of the following values?**

A 0

B -1

C 1

D 3

Answer: C

Explanation:
Expression 1 : 5 - 3x < 4 - x

=> $3x - x > 5 - 4$

=> $2x > 1$

=> $x > \frac{1}{2}$ ----------(i)

Expression 2 : 5(2 - x) > 2 - 2x

=> $10 - 5x > 2 - 2x$

=> $5x - 2x < 10 - 2$

=> $3x < 8$

=> $x < \frac{8}{3}$ ----------(ii)

Combining inequalities (i) and (ii), we get : $\frac{1}{2} < x < \frac{8}{3}$

The only value that x can take among the given options = 1

=> Ans - (C)

SSC CHSL Important Questions and Answers (Download PDF)

55. **The average revenues of 9 consecutive years of a company is Rs 76 lakhs. If the average of first 5 years is Rs 71 lakhs and that of last 5 years is Rs 83 lakhs, find the revenue for the 5th year.**

A Rs 88 lakhs

B Rs 84 lakhs

C Rs 86 lakhs

D Rs 82 lakhs

Answer: C

Explanation:
Total revenues of 9 years of the company = 76×9 = Rs. 684 lakhs

Total revenue of first 5 years = 71×5 = Rs. 355 lakhs

Total revenue of last 5 years = 83×5 = Rs. 415 lakhs

∴ Revenue of 5th year = (355 + 415) - 684 = 770 - 684

= Rs. 86 lakhs

=> Ans - (C)

56. **If 2x + 3y = 0 and 3x - 4y = 34, then x - y =**

Downloaded from cracku.in

A 10

B -10

C 2

D -2

Answer: A

Explanation:
Equation 1 : 2x + 3y = 0

Multiplying by 3 on both sides, we get : $6x + 9y = 0$ ----------(iii)

Equation 2 : 3x - 4y = 34

Multiplying by 2 on both sides, => $6x - 8y = 68$ ----------(iv)

Subtracting equation(iv) from (iii),

=> $(6x - 6x) + (9y + 8y) = (0 - 68)$

=> $17y = -68$

=> $y = \frac{-68}{17} = -4$

Substituting it in equation (i), we get : $2x + 3(-4) = 0$

=> $2x = 12$

=> $x = \frac{12}{2} = 6$

$\therefore (x - y) = 6 - (-4) = 6 + 4 = 10$

=> Ans - (A)

57. **5 hrs after a goods train passed a station, another train travelling at a speed of 70 km/hr following that goods train passed through that station. If after passing the station the train overtakes the goods train in 9 hours. What is the speed of the goods train?**

A 45 km/hr

B 54 km/hr

C 67.5 km/hr

D 36 km/hr

Answer: A

Explanation:
Let the speed of goods train = x km/hr

Speed of another train = 70 km/hr

Distance between the two trains = $70 \times 5 = 350$ km

The trains are moving in same direction, => Relative speed = $(70 - x)$ km/hr

Time = 5 + 9 = 14 hours

=> speed = distance/time

=> $70 - x = \frac{350}{14} = 25$

=> $x = 70 - 25 = 45$ km/hr

=> Ans - (A)

Downloaded from cracku.in

58. **Marked price of an item is Rs 200. On purchase of 1 item discount is 22%, on purchase of 4 items discount is 33%. Rabia buys 5 items, what is the effective discount?**

A 35 percent

B 30.8 percent

C 34 percent

D 20.4 percent

Answer: B

Explanation:
Marked price of item = Rs. 200

Amount saved on buying 1 item = $\frac{22}{100} \times 200 = Rs.44$

Marked price of 4 items = 4×200 = Rs. 800

Amount saved on buying 4 items = $\frac{33}{100} \times 800 = Rs.264$

Thus, on buying 5 items, total amount saved = 44 + 264 = Rs. 308

Total marked price of 5 items = 5×200 = Rs. 1000

$\therefore$ Effective discount = $\frac{308}{1000} \times 100$

= $\frac{308}{10} = 30.8\%$

=> Ans - (B)

59. **Find two numbers such that their mean proportion is 8 and third proportion is 64.**

A 4 and 8

B 8 and 16

C 8 and 8

D 4 and 16

Answer: D

Explanation:
Three numbers a,b,c are in proportion iff $b^2 = ac$ where b is the mean proportion and c is the third proportion

Mean proportion of two numbers x and y = 8

=> $xy = (8)^2 = 64$ ----------(i)

Third proportion = 64

=> $y^2 = x \times 64$ ----------(ii)

Substituting value of x from equation(i) in equation(ii), we get :

=> $y^2 = \frac{64}{y} \times 64$

=> $y^3 = (2)^6 \times (2)^6 = (2)^{6+6}$

=> $y = (2)^{\frac{12}{3}} = 2^4 = 16$

Substituting it in equation(i), => $x = \frac{64}{16} = 4$

=> Ans - (D)

Downloaded from cracku.in

60. **Akash is 3 times as good a workman as Baldev and therefore is able to finish a job in 40 days less than Baldev. Working together, they can finish it in .**

A 15 days

B 60 days

C 20 days

D 10 days

Answer: A

Explanation:
Ratio of times taken by Akash and Baldev = 1 : 3

The time difference is (3 - 1) 2 days while Baldev take 3 days and Akash takes 1 day.

If difference of time is 2 days, Baldev takes 3 days.

If difference of time is 40 days, Baldev takes = $\frac{3}{2} \times 40 = 60$ days

So, Akash takes 20 days

Akash's 1 day's work = $\frac{1}{20}$

Baldev's 1 day's work = $\frac{1}{60}$

(Akash + Baldev)'s 1 day's work together = $\frac{1}{20} + \frac{1}{60} = \frac{4}{60} = \frac{1}{15}$

$\therefore$ Akash and Baldev together can do the work in = 15 days

=> Ans - (A)

SSC CHSL Free App

61. **At what rate of compound interest per annum will a sum of Rs 20000 become Rs 23328 in 2 years?**

A 8 percent

B 16 percent

C 24 percent

D 12 percent

Answer: A

Explanation:
Let rate of interest = $r\%$ and time period = 2 years

Principal = Rs. 20,000 and Amount = Rs. 23,328

Amount after compound interest = $P(1 + \frac{R}{100})^T$

=> $20,000(1 + \frac{r}{100})^2 = 23328$

=> $(1 + \frac{r}{100})^2 = \frac{23328}{20000} = 1.1664$

=> $(1 + \frac{r}{100}) = \sqrt{1.1664} = 1.08$

=> $\frac{r}{100} = 1.08 - 1 = 0.08$

=> $r = 0.08 \times 100 = 8\%$

=> Ans - (A)

Downloaded from cracku.in

62. **ΔABC is similar to ΔPQR. Length of AB is 18 cm and length of the corresponding side PQ is 12 cm. If area of ΔABC is 324 sq cm, what is the area of ΔPQR?**

A 72 sq cm

B 144 sq cm

C 36 sq cm

D 487.5 sq cm

Answer: B

Explanation:

It is given that ΔABC $\sim$ ΔPQR

Also, length of AB = 18 cm and length of the corresponding side PQ = 12 cm

Let area of ΔPQR = x sq cm

=> Ratio of Area of ΔABC : Area of ΔPQR = Ratio of square of corresponding sides = $(AB)^2 : (PQ)^2$

=> $\frac{324}{x} = \frac{(18)^2}{(12)^2}$

=> $x = (12)^2 = 144$ sq cm

=> Ans - (B)

63. **What is the slope of the line perpendicular to the line passing through the points (8,2) and (3,1)?**

A -5

B 3/5

C 5/3

D 1/5

Answer: A

Explanation:

Slope of line passing through (x_1, y_1) and (x_2, y_2) is $\frac{y_2-y_1}{x_2-x_1}$

=> Slope of line passing through (3,1) and (8,2) = $\frac{2-1}{8-3} = \frac{1}{5}$

Let slope of line perpendicular to it = m

Also, product of slopes of two perpendicular lines = -1

=> $m \times \frac{1}{5} = -1$

=> $m = -5$

=> Ans - (A)

Daily Free SSC Practice Set

64. **A pentagonal prism has 15 edges. How many vertices does it have?**

A 12

B 10

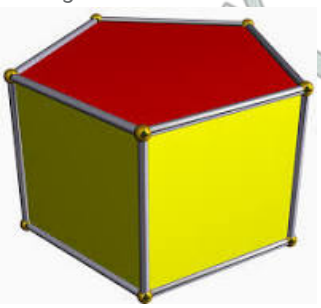
C 15

Downloaded from cracku.in

D 20

Answer: B

Explanation:
Pentagonal Prism :



Euler's formula : $V + F - E = 2$ where V is number of vertices , F is number of faces and E is number of edges.

Pentagonal Prism has 15 edges and 7 faces.

=> $V = 2 + E - F = 2 + 15 - 7$

=> $V = 17 - 7 = 10$

=> Ans - (B)

65. **The diameter of a circle is equal to the side of the square. What is the area of the square if the area of the circle is 49π sq cm?**

A 196 sq cm

B 154 sq cm

C 124 sq cm

D 98 sq cm

Answer: A

Explanation:
Let radius of circle = r cm

Area of circle = $\pi r^2 = 49\pi$

=> $r^2 = 49$

=> $r = \sqrt{49} = 7$ cm

Thus, diameter of circle = Side of square = $2 \times 7 = 14$ cm

$\therefore$ Area of square = $(14)^2 = 196cm^2$

=> Ans - (A)

66. **The radius of a hemisphere is 7 cm, find its volume?**

A 718.67 cubic cm

B 1437.34 cubic cm

C 239.56 cubic cm

D 359.34 cubic cm

Answer: A

Explanation:
Radius of hemisphere = 7 cm

Downloaded from cracku.in

Volume of hemisphere = $\frac{2}{3}\pi r^3$

= $\frac{2}{3} \times \frac{22}{7} \times (7)^3$

= $\frac{2}{3} \times 22 \times 49 = \frac{2156}{3}$

= $718.67cm^3$

=> Ans - (A)

Free SSC Study Material (18,000 Solved Questions)

67. **29 is 0.8% of?**

A 3625

B 1450

C 7250

D 10875

Answer: A

Explanation:
Let the number be x

According to ques, 0.8% of x = 29

=> $\frac{0.8}{100} \times x = 29$

=> $\frac{x}{125} = 29$

=> $x = 29 \times 125 = 3625$

=> Ans - (A)

68. **If sin 5π/3 = x, then the value of x is**

A √3/2

B -√3/2

C 2

D -2/√3

Answer: B

Explanation:
Expression : sin 5π/3 = x

= $sin(2\pi - \frac{\pi}{3})$

= $-sin(\frac{\pi}{3}) = \frac{-\sqrt{3}}{2}$

=> Ans - (B)

69. **If (tanA + tanB)/(1 - tanAtanB) = x, then the value of x is**

A tan(A + B)

B tan(A - B)

C cot(A + B)

Downloaded from cracku.in

D cot(A - B)

Answer: A

Explanation:

Expression : (tanA + tanB)/(1 - tanAtanB) = x

= $\left(\frac{sinA}{cosA} + \frac{sinB}{cosB}\right) \div \left(1 - \frac{sinAsinB}{cosAcosB}\right)$

= $\left(\frac{sinAcosB+cosAsinB}{cosAcosB}\right) \div \left(\frac{cosAcosB-sinAsinB}{cosAcosB}\right)$

= $\left[\frac{sin(A+B)}{cosAcosB}\right] \div \left[\frac{cos(A+B)}{cosAcosB}\right]$

= $\left[\frac{sin(A+B)}{cosAcosB}\right] \times \left[\frac{cosAcosB}{cos(A+B)}\right]$

= $\frac{sin(A+B)}{cos(A+B)} = tan(A+B)$

=> Ans - (A)

1500+ Very Important Free SSC Solved Questions

70. **If 1/(cosecA + cotA) = x, then the value of x is**

A cosecA + cotA

B cosecA - cotA

C $cosec^2$ A + cot2A

D √[$cosec^2$ A + cot2A]

Answer: B

Explanation:

Expression : $\frac{1}{cosecA+cotA}$

= $\frac{1}{\frac{1}{sinA}+\frac{cosA}{sinA}}$

= $\frac{1}{\frac{1+cosA}{sinA}} = \frac{sinA}{1+cosA}$

Multiplying both numerator and denominator by $(1 - cosA)$

= $\frac{sinA}{1+cosA} \times \frac{(1-cosA)}{(1-cosA)}$

= $\frac{sinA(1-cosA)}{1-cos^2A} = \frac{sinA(1-cosA)}{sin^2A}$

= $\frac{1-cosA}{sinA} = \frac{1}{sinA} - \frac{cosA}{sinA}$

= $cosecA - cotA$

=> Ans - (B)

71. **A vendor buys oranges at the rate of 5 for Rs 6 and sells at the rate of 2 for Rs 3. What will be the result?**

A 25 percent loss

B 25 percent gain

C 20 percent gain

D 20 percent loss

Answer: B

Downloaded from cracku.in

Explanation:
The vendor buys 5 oranges for Rs. 6

=> Cost price of 1 orange = $\frac{6}{5}$ = Rs 1.2

He sells 2 oranges for Rs. 3

=> Selling price of 1 orange = $\frac{3}{2}$ = Rs 1.5

$\because$ Selling price is more than Cost price, the vendor earns a profit

=> Profit % = $\frac{(1.5-1.2)}{1.2} \times 100$

= $\frac{1}{4} \times 100 = 25\%$

=> Ans - (B)

72. **Refer the below data table and the following question.**

	Boys	Girls
Medical	20	45
Engineering	90	25

What percent students who choose Engineering are girls

A 13.89

B 21.74

C 35.71

D 27.78

Answer: B

Explanation:
Number of girls who chose engineering = 25

Total number of engineers = 90 + 25 = 115

=> Percent of the girls who choose engineering = $\frac{25}{115} \times 100$

= $\frac{500}{23} \approx 21.74\%$

=> Ans - (B)

SSC Exam Update Videos & Free Study Material (YouTube Channel)

73. **Refer the below data table and answer the following question**

	Cumulative production
January	300
February	500
March	1080
April	1630
May	2030
June	2320

How many car were manufactured in the months of April and May ?

A 690

B 1130

C 3660

D 950

Downloaded from cracku.in

Answer: D

Explanation:
Number of cars produced in :

January = 300

February = 500 - 300 = 200

March = 1080 - 500 = 580

April = 1630 - 1080 = 550

May = 2030 - 1630 = 400

June = 2320 - 2030 = 290

=> Number of cars that were manufactured in the month of the April and may = 550 + 400 = 950

=> Ans - (D)

74. **Refer the below data table and answer the following question**

Day of the week	Distance jogged (km)
Monday	3.5
Tuesday	3
Wednesday	2.5
Thursday	5
Friday	2.5
Saturday	2
Sunday	4.5

If 400 calories are burned by jogging 5km, how many calories were burnt in the given week?

A 1890 calories

B 1840 calories

C 1790 calories

D 1740 calories

Answer: B

Explanation:
Total distance jogged in entire week

= 3.5 + 3 + 2.5 + 5 + 2.5 + 2 + 4.5 = 23 km

Calories burned after jogging 5 km = 400 calories

=> Calories burned after jogging 23 km = $\frac{400}{5} \times 23$

= $80 \times 23 = 1840$ calories

=> Ans - (B)

75. **Refer the below data table and answer the following question**

Items	Yearly Expense In Lakhs
Raw Materials	6
Labour	3
Rent	5
Interest	6
Taxes	3

Rent and Taxes are what percent of total expenses ?

A 27.53 percent

Downloaded from cracku.in

B 34.78 percent

C 20.28 percent

D 42.03 percent

Answer: B

Explanation:
Yearly experience in Rent and Taxes (in Lakhs) = 5 + 3 = 8

Total expenses (in Lakhs) = 6 + 3 + 5 + 6 + 3 = 23

=> Required % = $\frac{8}{23} \times 100$

= $\frac{800}{23} = 34.78\%$

=> Ans - (B)

Latest Job Updates on Telegram - Join here

English

76. **In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.**
To rummage about in a place or container in search of something.

A to rake

B to excavate

C to ferret

D to poke

Answer: C

Join SSC Daily Quiz Telegram Group

77. **In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.**
to buy a lemon

A to purchase a vehicle that constantly gives problems

B buying only half the recipe will not help you prepare the full dish

C to purchase an insignificant thing which eventually becomes very useful

D to buy stuff which you don't need

Answer: A

78. **Select the antonym of mere**

A unadorned

B immense

C sheer

D blunt

Downloaded from cracku.in

Answer: B

79. **In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.**
The population of Mumbai(A)/is greater than(B)/in any city in USA.(C)/No error(D)

A A

B B

C C

D D

Answer: C

80. **In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.**
The bank----------his house as he had failed to pay the instalments despite repeated warnings.

A mobbed

B confiscated

C hijacked

D captured

Answer: B

81. **Rearrange the parts of the sentence in correct order:**
At one level,
Pthe law in understanding Qsuch cases of violence Rone senses the limits of

A RQP

B PQR

C RPQ

D QRP

Answer: C

82. **In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.**
For a full week(A)/she enjoyed the benefits(B)/ of being a big sister.(C)/No error(D)

A A

B B

C C

D D

Answer: D

Downloaded from cracku.in

83. **Select the synonym of to ordain**

A to anoint

B to retract

C to veto

D to void

Answer: A

84. **Select the synonym of to stranded**

A to douse

B to aground

C to swamp

D to inundate

Answer: B

85. **Improve the bracketed part of the sentence.**
All the allegations levelled (over) the poor watchman were found to be baseless.

A upon

B off

C against

D no improvement

Answer: C

SSC CHSL Prevoius Papers (DOWNLOAD PDF)

86. **Rearrange the parts of the sentence in correct order.**
It is the right to
Pwho see us at our most vulnerable Qthe indiscretions of doctors Rprivacy that protects us from

A QRP

B QPR

C PRQ

D RQP

Answer: D

87. **Select the antonym of to comprise**

A to dispute

Downloaded from cracku.in

B to embody

C to span

D to encompass

Answer: A

88. **In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. to cast iron stomach**

A a very greedy person

B to be able to eat or drink anything without any problems

C to be indifferent to harsh words

D to face so many difficulties in life that one now becomes immune to even poison

Answer: B

SSC CGL Previous Papers (DOWNLOAD PDF)

89. **In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one, which best expresses the same sentence in Passive/Active.**
The event manager is making all the reservations.

A All the reservations would be made by the event manager.

B All the reservations are being made by the event manager.

C All the reservations would have been made by the event manager.

D All the reservations will have been made by the event manager.

Answer: B

90. **Improve the bracketed part of the sentence.**
"I am the only man in the world who (can) paint a picture so true to life," he said.

A will

B could

C may

D no improvement

Answer: D

91. **In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.**
To sell (stocks or other securities or commodities) in advance of acquiring them, with the aim of making a profit when the price falls.

A bilking

B duping

C conning

Downloaded from cracku.in

D shorting

Answer: D

SSC CGL Free Mock Test (Latest Pattern)

92. **In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one, which best express the same sentence in Indirect/Direct speech.**
'Do you have anything to say on behalf of the accused?' said the judge finally.

A The judge finally asked that if he had anything to say on behalf of the accused.

B The judge finally ask that whether he had anything to say on behalf of the accused.

C The judge finally asked that if he has anything to say on behalf of the accused.

D The judge finally asked that if he has had anything to say on behalf of the accused.

Answer: B

93. **Select the word with the correct spelling.**

A amphybia

B indanted

C ancumber

D levelled

Answer: D

94. **In the following question, sentence given with blank is to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.**
A large crowd----------to get a glimpse of their favourite star.

A gathered

B rallied

C clustered

D compiled

Answer: A

SSC CHSL Important Questions and Answers (Download PDF)

95. **Select the word with the correct spelling.**

A tidlers

B thistlees

C pulchritude

D tenderred

Answer: C

Downloaded from cracku.in

Instructions [96 - 100]

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.
In a strange ------(1)------- the production and the consumption of the event become cause for concern.---------(2)----------wonders whether newer forms of "noncaring" or violence are appearing. Somehow, silence, even ------(3)------, quietly suppresses a meditation on such events.----------(4)----------a professor, I can recollect the number of occasions when my students have cried as we discussed such events in class.----------(5)---------- society seems so indifferent.

96. **1**

A way

B form

C step

D method

Answer: A

97. **2**

A Anyone

B One

C Someone

D Somebody

Answer: B

SSC CHSL Study Material

98. **3**

A attention

B bias

C regard

D indifference

Answer: D

99. **4**

A Like

B Alike

C As

D Being

Answer: C

100. **5**

Downloaded from cracku.in

A Yet

B Thus

C Hence

D So

Answer: A

SSC CHSL Free App

SSC CHSL Free Mock Test

SSC CHSL Prevoius Papers (DOWNLOAD PDF)

SSC CGL Previous Papers (DOWNLOAD PDF)

SSC CGL Free Mock Test (Latest Pattern)

SSC CHSL Important Questions and Answers (Download PDF)

SSC CHSL Study Material

SSC CHSL Free App

Daily Free SSC Practice Set

Free SSC Study Material (18,000 Solved Questions)

1500+ Very Important Free SSC Solved Questions

SSC Exam Update Videos & Free Study Material (YouTube Channel)

Latest Job Updates on Telegram - Join here

Join SSC Daily Quiz Telegram Group

Downloaded from cracku.in